

The **Leading by Example Program (LBE)** has several initiatives underway including:

Energy Tracking

LBE is working to collect all electricity and natural gas use data from state agencies, setting benchmarks for energy performance.

Energy Efficiency and Renewable Energy

LBE is working with state agencies and public colleges and university campuses to improve energy efficiency, reduce greenhouse gas emissions, and install renewable energy technologies for on-site generation.

Vehicles and Fleets

LBE is reducing state vehicle fuel consumption by working with agencies to replace traditional fueled vehicles with hybrid, plug-in hybrid, and alternative fuel vehicles where appropriate.

Green Buildings

Under EO 484, all state construction must meet the Mass LEED Plus standard, which requires 20% better energy performance than the state building code.

Climate Action Planning

All twenty-nine of the Commonwealth's public colleges and university campuses are developing greenhouse gas inventories and initiatives to reduce emissions.

Water Conservation

LBE is advancing both indoor and outdoor water conservation through leak detection, new technologies, and ecological landscaping and design.

Waste Reduction and Recycling

Across state government agencies are reducing waste and expanding recycling programs with a focus on paper, organics, and public recycling efforts.

Pilot Projects

LBE funds agency and public campus pilot projects focusing on the priority areas of energy efficiency, renewable energy, green buildings, waste reduction, water conservation, and sustainable landscaping.

Leading by Example Program

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COMMONWEALTH OF MASSACHUSETTS

Leading by Example Program

Executive Office of Energy and Environmental Affairs
Department of Energy Resources



**Creating a Cleaner Energy
Future for the Commonwealth**

COMMONWEALTH OF MASSACHUSETTS Leading by Example Program

The Leading by Example Program (LBE) was established in April 2007 by Governor Deval Patrick's [Executive Order No. 484](#), "Leading by Example—Clean Energy and Efficient Buildings." The program is overseen by the Executive Office of Energy and Environmental Affairs and the Executive Office for Administration and Finance, and is implemented in collaboration with agencies across state government.

The [LBE Program](#) encompasses all Massachusetts executive agencies and public institutions of higher education. These agencies and institutions own 65 million square feet of buildings and 8,000 vehicles, employ over 65,000 people, and include twenty-nine college campuses.

LBE works closely with the Division of Capital Asset Management on building-related projects, Department of Environmental Protection on waste reduction and recycling, Operational Services Division on environmentally preferable procurement, and the Department of Energy Resources on energy efficiency and renewables.



Mass Maritime Academy: 660kW wind turbine and 72kW solar PV array.



Secretary Sullivan speaks at the dedication of the turbines at Mount Wachusett Community College

Executive Order 484 Leading by Example—Clean Energy and Efficient Buildings

Energy and efficiency targets include:

- Reduce GHG emissions 25% by 2012 (baseline FY02); 40% by 2020; 80% by 2050
- Reduce overall energy consumption 20% by 2012 (baseline FY04); 35% by 2020 (measured on a BTU per square foot basis)
- Obtain 15% of electricity from renewable sources by 2012; 30% by 2020
- Utilize 3% bioheat blend for all heating applications that use #2 fuel beginning winter 2007-08, and 10% bioheat blend by 2012
- Reduce potable water use 10% by 2012 from 2006 levels; 15% by 2020
- Meet MassLEED Plus green building standards for all new construction and major renovations

"In my administration, we intend to practice what we preach." – Governor Deval Patrick

The Leading by Example Program provides leadership, technical assistance, and funding opportunities to state agencies and public colleges and university campuses to ensure the implementation of EO 484.

By developing guidance documents, policies, and facilitating project implementation, LBE is working with agencies to improve energy efficiency in state buildings and fleets, advancing environmental goals and saving critical dollars for the Commonwealth.



The first state-owned zero net energy building at North Shore Community College, the Health and Student Services Building in Danvers.

Selected LBE resources include:

- Periodic funding sustainability pilot projects
- Greenhouse gas inventory guidance and assistance for MA public college campuses
- Solar site survey forms, energy use tracking and benchmarking, and building energy metering
- Computer power management standard for executive agencies
- Research on various environmentally preferable products and technologies to improve efficiency in operations
- Water conservation guidance including water use survey and waterless urinals report